

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office - 6 DEC 1924

Date of writing Report 10 When handed in at Local Office - 5 DEC 1924 Port of SUNDERLAND

No. in Survey held at SUNDERLAND Date, First Survey Nov. 19 Last Survey 27 Dec 1924
Reg. Book. (Number of Visits.....)

on the S.S. "FYLINGDALE"

Tons { Gross 3918
Net 2322

Built at SUNDERLAND. By whom built MESSRS J.L. THOMPSON & SONS Yard No. 553 When built 1924.

Owners ROWLAND & MARWOOD S.S. CO LD. Port belonging to A. L. L. L.

Electric Light Installation fitted by SUNDERLAND FORGE & ENGINEERING CO LD. Contract No. When fitted 1924.

System of Distribution TWO WIRE. ✓

Pressure of supply for Lighting 110 VOLTS. ✓ volts, Heating NONE ✓ volts, Power NONE ✓ volts.

Direct or Alternating Current, Lighting DIRECT ✓ Power NONE.

If alternating current system, state frequency of periods per second —

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off YES. ✓

Generators, do they comply with the requirements regarding overload YES. , are they compound wound YES. ✓

are they over-compounded 5 per cent. YES. , if not compound wound state distance between each generator ONLY ONE GENERATOR.

Where more than one generator is fitted are they arranged to run in parallel 1 GEN^R ONLY FITTED. , is an adjustable regulating resistance fitted in

series with each shunt field NO

Are all terminals accessible and clearly marked YES. , are they so spaced or shielded that they cannot be accidentally earthed,

or short circuited YES. Are the lubricating arrangements of the generators as per Rule YES.

Position of Generators IN ENGINE ROOM.

is the ventilation in way of the generators satisfactory YES. , are they clear of all inflammable material YES.

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators
NOT SO SITUATED. and , are the generators protected from mechanical injury and damage from water, steam or oil YES.

are their axis of rotation fore and aft YES.

Earthing, are the bedplates and frames of the generating plant efficiently earthed YES. are the prime movers and

their respective generators in metallic contact YES.

Main Switch Boards, where placed CLOSE TO GENERATOR & IN SAME COMPARTMENT.

If the generators and main switchboard are not placed in the same compartment, is each generator provided with
a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard IN SAME COMPARTMENT.

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes YES.

are they protected from mechanical injury and damage from water, steam or oil YES. , if situated near unprotected

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards NOT SO PLACED and —

are they constructed wholly of durable, incombustible non-absorbent materials YES. , is all insulation of high dielectric strength and of

permanently high insulation resistance YES. , if semi-insulating material is used, are all conducting parts connected to one pole

insulated from the slab with mica or micanite and the slab similarly insulated from its framework YES. , and is the

frame effectively earthed YES. Are the following fittings as per Rule, viz. :— spacing or shielding of live parts

YES. , accessibility of all parts YES. , absence of fuses on back of board YES. , proportion of omnibus

bars YES. , individual fuses to voltmeter, pilot or earth lamp YES. , connections of switches YES.

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches DOUBLE POLE

SWITCH & FUSES FOR GENERATOR. SINGLE POLE SWITCHES & DOUBLE POLE FUSES FOR OUTGOING

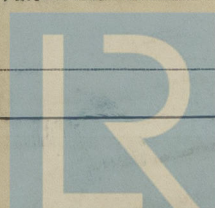
CIRCUITS.

Instruments on main switchboard 1 ammeter 1 voltmeter — synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system EARTH LAMPS.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules YES.

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule YES.



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Foundation

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Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.007 square inch and above provided with soldering sockets

YES.

Paper Insulated Cables. *If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound*

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage. **YES**

Support and Protection of Cables, state how the cables are supported and protected ARMoured & BRAided CABLE
CLIPPED TO UNDERSIDE OF BEAMS.

If cables are run in wood casings, are the casings and caps secured by screws NO CASING, are the cap screws of brass — —, are the cables run in separate grooves —. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VI YES

Refrigerated Chambers, *if lights are fitted, are the cables and fittings in accordance with the special requirements* **NOTE FITTED.**

Joints in Cables, *state if any, and how made, insulated, and protected* NONE MADE

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands

YES.

Bushes in Beams and Non-watertight Positions, *where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently*
bushed **YES** state the material of which the bushes are made **LEAD.**

Earthing Connections, *state what earthing connections are fitted and their respective sectional areas*

....., are their connections made as per Rule

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule..... YES.

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven NONE FITTED.

Navigation Lamps, are these separately wired YES, controlled by separate switch and separate fuses YES.

are the fuses double pole YES., are the switches and fuses grouped in a position accessible only to the officers on watch YES.

has each navigation lamp an automatic indicator as per Rule YES., are separate screens provided for the use of oil and electric side lights YES.

are separate oil lanterns provided for the mast head lights and side lights _____

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight..... **YES.**

are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected NOT SO PLACED.

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected. NONE SO PLACED.

....., how are the cables led

where are the controlling switches situated _____

Searchlight Lamps, No. of NONE, whether fixed or portable _____, are their fittings as per Rule _____.

Arc Lamps, other than searchlight lamps, No. of NONE, are their live parts insulated from the frame or case _____, are their fittings as per Rule _____

Motors, are their working parts readily accessible NONE, are the coils self-contained and readily removable for replacement _____,

are the brushes, brush holders, terminals and lubricating arrangements as per Rule....., are the motors placed in well-ventilated compartments in which

inflammable gases cannot accumulate and clear of all inflammable material.....

are they protected from mechanical injury and damage from water, steam or oil..... are their axis of rotation fore and aft.....

f situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type

....., if not of this type, state distance of the combustible material horizontally or vertically above the motors and

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed as per Rule-----

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule.....

hips carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes,

selection and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office.....

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY.	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	1	10	110	91	375	OPEN TYPE INVERTED		
AUXILIARY						STEAM ENGINE.		
EMERGENCY								
ROTARY TRANSFORMER								

[illegible][illegible]

All Conductors are of annealed copper conforming to British Standard Specification No. 7.

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

p.pro. THE SUNDERLAND FOUNDRY & ENGINEERING CO. LTD.

Electrical Engineers.

Date 26th November 1924.

Director.

COMPASSES.

Distance between electric generators or motors and standard compass 110 FEET.

Distance between electric generators or motors and steering compass 100 FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 8.5 Ampères 8 feet from standard compass 12 feet from steering compass.

A cable carrying 55 Ampères 10 feet from standard compass led into feet from steering compass.

A cable carrying 55 Ampères led into feet from standard compass 10 feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power. Yes

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted. Yes

The maximum deviation due to electric currents was found to be no degrees on any course in the case of the standard compass, and no degrees on any course in the case of the steering compass.

JOSEPH L. THOMPSON & SONS, LIMITED.

Builder's Signature.

Date 4th Dec. 1924

Is this installation a duplicate of a previous case If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

This installation has been fitted in a satisfactory manner and in accordance with the rules and on completion was tried under working conditions with satisfactory results.

It is submitted that
this vessel is eligible for
THE RECORD. Elec. light.

J.W.D.
18/12/24

Total Capacity of Generators 10 Kilowatts

The amount of Fee ... £ 10: : When applied for, 1st Dec 1924

Travelling Expenses (if any): £ : : When received, 1st Dec 1924

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

1m. 3.22. Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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